

Amendments to the Claims:

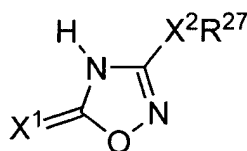
This listing of claims will replace all prior versions and listings of claims in the application.

These changes introduce no new matter and support for such is replete throughout the specification and claims as originally filed. These changes are made without prejudice and are not to be construed as abandonment of the previously claimed subject matter or agreement with any objection or rejection or record.

Listing of Claims:

Claims 1-16 (canceled).

Claim 17 (currently amended): A compound of Formula 5



5

wherein X¹ and X² are independently O or S;
wherein R²⁷ is -(CR⁶R⁷)_q-Q; R⁶, R⁷, q, Q, X¹ and X² are as defined for Formula 1 and,
wherein each R⁶ and R⁷ are independently H or C₁-C₄ alkyl and
each q is independently 0, 1 or 2; and,

wherein

Q is H; or C₁-C₁₂ alkyl, C₃-C₁₀ cycloalkyl, C₆-C₁₄ bicycloalkyl, C₃-C₁₂ alkenyl,
C₃-C₁₀ cycloalkenyl, C₆-C₁₄ bicycloalkenyl or C₃-C₁₂ alkynyl, each optionally
substituted with one or more R²¹; or

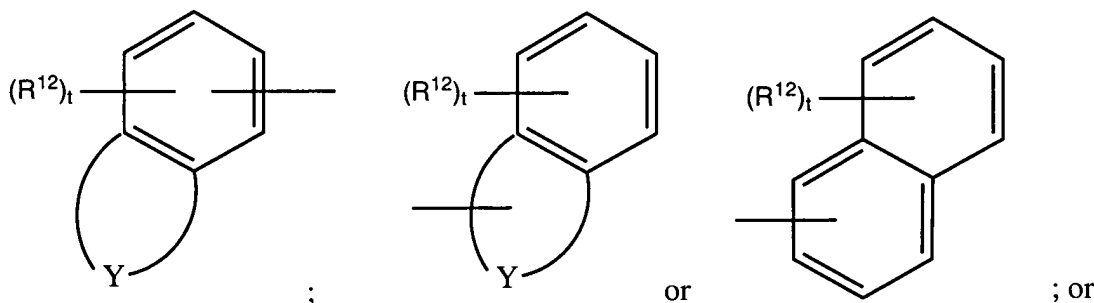
Q is a 3- to 7-membered fully saturated or 5- to 7-membered partially saturated
heterocyclic ring containing one or two X, provided that (a) when X is other than
O or S(O)_n, then only one X may be present and (b) when two X are present in
the ring, they cannot be bonded directly to each other; or

Q is a 5- or 6-membered aromatic heterocyclic ring system containing 1 to 3

heteroatoms independently selected from the group consisting of nitrogen, oxygen and sulfur, provided that the heterocyclic ring system contains no more than one oxygen and no more than one sulfur, and each heterocyclic ring system is optionally substituted with one or more R^{16} ; and when Q is a 5- or 6-membered aromatic heterocyclic ring system containing a nitrogen, then Q is bonded through any available carbon or nitrogen atom by replacement of a hydrogen on said carbon or nitrogen atom; or

Q is phenyl optionally substituted with one or more substituents independently selected from the group consisting of R^{16} , phenoxy and Z; or

Q is



Q is $-C(R^{14})(=NOR^{15})$, $-C(O)R^{19}$, $-C(O)OR^{19}$, $-C(O)SR^{19}$, $-C(S)R^{19}$, $-C(S)OR^{19}$,

$-C(S)SR^{19}$, $-C(O)NR^{23}R^{24}$, $-C(S)NR^{23}R^{24}$, $-OR^{19}$, $-NR^{19}R^{20}$, $-S(O)_nR^{19}$ or $-S(O)_nNR^{19}R^{20}$;

each X is $-O-$, $-S(O)_n-$, $-N=$, $-NR^{10}-$ or $-Si(R^{11})_2-$;

Y is, together with the carbons to which it is attached, a fully or partially saturated 5-, 6- or 7-membered carbocyclic ring optionally substituted with one or more C_1 - C_4 alkyl groups; or

Y is, together with the carbons to which it is attached, a fully or partially saturated 5-, 6- or 7-membered heterocyclic ring which contains one or two X and is optionally substituted with one or more R^{12} , provided that when said heterocyclic ring contains two X, then one X is other than O;

Z is phenyl or a 5- or 6-membered aromatic heterocyclic ring system containing 1 to 3

heteroatoms independently selected from the group consisting of nitrogen, oxygen and sulfur, provided that the heterocyclic ring system contains no more than one oxygen and no more than one sulfur, and each phenyl and heterocyclic ring system is optionally substituted with one or more R¹⁶;

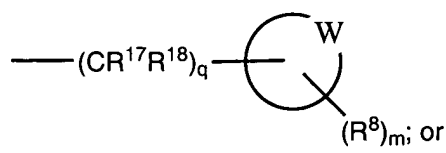
R¹ is C₁-C₆ alkyl, C₁-C₆ haloalkyl, C₃-C₆ alkenyl, C₃-C₆ haloalkenyl, C₃-C₆ alkynyl, C₃-C₆ haloalkynyl, C₁-C₆ alkoxy, C₂-C₆ alkoxyalkyl or C₂-C₆ haloalkoxyalkyl; or R¹ is C₃-C₇ cycloalkyl or C₃-C₇ cycloalkenyl, each optionally substituted with one or more R⁵; or

R¹ is phenyl optionally substituted with one or more R¹³; or

R¹ is a 5- or 6-membered aromatic heterocyclic ring system containing 1 to 3 heteroatoms independently selected from the group consisting of nitrogen, oxygen and sulfur, provided that the heterocyclic ring system contains no more than one oxygen and no more than one sulfur, and each heterocyclic ring system is optionally substituted with one or more R¹⁶;

R² is C₁-C₆ alkyl, C₁-C₆ haloalkyl, C₃-C₇ cycloalkyl, C₃-C₆ alkenyl, C₃-C₆ haloalkenyl, C₃-C₆ alkynyl, C₃-C₆ haloalkynyl, C₁-C₆ alkoxy, C₂-C₆ alkoxyalkyl, C₂-C₆ haloalkoxyalkyl or NR³R⁴; or

R² is



R¹ and R² are taken together as -CH₂CH₂-, -CH₂CH₂CH₂-, -CH₂CH₂CH₂CH₂-, -CH₂CH₂CH₂CH₂CH₂- or -CH₂CH₂OCH₂CH₂-;

R³ is C₁-C₆ alkyl, C₁-C₆ haloalkyl, C₃-C₆ alkenyl, C₃-C₆ haloalkenyl, C₃-C₆ alkynyl, C₃-C₆ haloalkynyl; or

R³ is C₃-C₇ cycloalkyl or C₃-C₇ cycloalkenyl, each optionally substituted with one or more R⁵; or

R³ is a saturated or partially saturated 5-, 6- or 7-membered heterocyclic ring containing 1 to 2 heteroatoms independently selected from the group consisting

of nitrogen, oxygen and sulfur, and each heterocyclic ring is optionally substituted with one or more R^5 ; or

R^3 is phenyl optionally substituted with one or more R^{26} groups; or

R^1 and R^3 are taken together with the two nitrogen atoms to which they are attached to form a saturated or partially saturated 5-, 6- or 7-membered heterocyclic ring containing an optional third heteroatom selected from the group consisting of oxygen, sulfur and nitrogen, and said heterocyclic ring is optionally substituted with one or more R^9 ; or

R^2 and R^{13} , together with the two atoms to which they are attached and the atom between them, form a fully saturated 5-, 6- or 7-membered carbocyclic or heterocyclic ring containing one oxygen, one sulfur or one or two nitrogen atoms, said heterocyclic ring is optionally substituted with one or more R^{12} , provided that when said heterocyclic ring contains two nitrogen atoms, they are other than bonded directly to each other;

R^4 is H or C_1 - C_4 alkyl; or

R^3 and R^4 are taken together with the nitrogen atom to which they are attached to form a saturated or partially saturated 5-, 6- or 7-membered heterocyclic ring containing an optional second heteroatom selected from the group consisting of oxygen, sulfur and nitrogen, and said heterocyclic ring is optionally substituted with 1-4 R^9 ;

each R^5 is independently halogen, C_1 - C_4 alkyl or C_1 - C_4 alkoxy; or when two R^5 are attached to the same carbon, then said two R^5 groups are taken together as (=O);

R^8 is independently C_1 - C_4 alkyl, C_1 - C_4 haloalkyl or C_1 - C_4 alkoxy;

each R^9 is independently C_1 - C_4 alkyl or C_1 - C_4 alkoxy; or when two R^9 are attached to the same carbon, then said two R^9 groups are taken together as (=O);

W is, together with the carbons to which it is attached, a fully or partially saturated 5-, 6- or 7-membered heterocyclic ring containing one or two X, provided that (a) when X is other than O or S(O)_n, then only one X may be present; (b) when two X are present in the ring, they cannot be bonded directly to each other; and (c) said heterocyclic ring is bonded to the group $(CR^{17}R^{18})_q$ through other than X;

R¹⁰ is H, C₁-C₄ alkyl, C₁-C₄ haloalkyl, C₃-C₄ alkenyl, C₃-C₄ alkynyl, C₂-C₄ alkoxy carbonyl or C₂-C₄ alkyl carbonyl; or R¹⁰ is phenyl optionally substituted with C₁-C₃ alkyl, halogen, cyano, nitro or C₂-C₄ alkoxy carbonyl;

each R¹¹ is C₁-C₄ alkyl;

each R¹² is independently halogen, C₁-C₄ alkyl, C₁-C₄ haloalkyl, C₁-C₄ alkoxy, C₁-C₄ haloalkoxy, C₁-C₄ alkylthio, C₁-C₄ haloalkylthio, C₁-C₄ alkylsulfinyl, C₁-C₄ alkylsulfonyl or C₂-C₄ alkoxy carbonyl;

each R¹³ is independently halogen, C₁-C₃ alkyl, C₁-C₃ haloalkyl, C₁-C₃ alkoxy, C₁-C₃ haloalkoxy, C₃-C₆ alkenyloxy, C₃-C₆ alkynyloxy, C₁-C₄ alkylthio, C₁-C₄ haloalkylthio, C₁-C₄ alkylsulfinyl, C₁-C₄ alkylsulfonyl, cyano, amino, nitro or C₂-C₄ alkoxy carbonyl;

R¹⁴ is H, C₁-C₆ alkyl, C₁-C₆ haloalkyl or C₂-C₆ alkoxyalkyl; or

R¹⁴ and R⁶, together with the carbon atoms to which they are bonded, form a 5- or 6-membered saturated carbocyclic ring optionally substituted with one or more C₁-C₄ alkyl groups;

R¹⁵ is H, C₁-C₆ alkyl, C₁-C₆ haloalkyl, C₃-C₄ alkenyl or C₃-C₄ alkynyl;

each R¹⁶ is independently halogen, nitro, cyano, C₁-C₄ alkyl, C₁-C₄ haloalkyl, C₃-C₄ alkenyl, C₃-C₄ alkynyl, OR²², NR²³R²⁴ or S(O)_nR¹⁹;

each R¹⁷ and R¹⁸ are independently H or C₁-C₄ alkyl ;

each R¹⁹ and R²⁰ are independently C₁-C₁₂ alkyl, C₃-C₈ cycloalkyl, C₃-C₁₂ alkenyl, C₃-C₈ cycloalkenyl or C₃-C₁₂ alkynyl, each optionally substituted with one or more R²¹;

each R²¹ is halogen, C₄-C₈ trialkylsilylalkyl, CN, NO₂, -OR²², -NR²³R²⁴, -S(O)_nR²², -S(O)_nNR²³R²⁴, -C(O)R²², -C(S)R²², -C(O)OR²², -C(S)OR²², -C(S)SR²², -C(O)NR²³R²⁴, -C(S)NR²³R²⁴, -CHR²⁵COR²², -CHR²⁵P(O)(OR²²)₂, -CHR²⁵P(S)(OR²²)₂, -CHR²⁵C(O)NR²³R²⁴, -CHR²⁵C(O)NH₂, -CHR²⁵CO₂R²², phenyl optionally substituted with one or more R²⁶ groups or benzyl optionally substituted with one or more R²⁶ groups;

each R²² is C₁-C₈ alkyl, C₃-C₈ cycloalkyl, C₃-C₈ alkenyl, C₃-C₈ alkynyl, C₁-C₈ haloalkyl, C₂-C₈ alkoxyalkyl, C₂-C₈ alkylthioalkyl, C₂-C₈ alkylsulfinylalkyl,

C₂-C₈ alkylsulfonylalkyl, C₄-C₈ alkoxyalkoxyalkyl, C₄-C₈ cycloalkylalkyl, C₄-C₈ alkenoxyalkyl, C₄-C₈ alkynyloxyalkyl, C₆-C₈ cycloalkoxyalkyl, C₄-C₈ alkenyloxyalkyl, C₄-C₈ alkynyloxyalkyl, C₃-C₈ haloalkoxyalkyl, C₄-C₈ haloalkenoxylalkyl, C₄-C₈ haloalkynyloxyalkyl, C₆-C₈ cycloalkylthioalkyl, C₄-C₈ alkenylthioalkyl, C₄-C₈ alkynylthioalkyl, C₁-C₄ alkyl substituted with phenoxy or benzyloxy, each ring optionally substituted with halogen, C₁-C₃ alkyl or C₁-C₃ haloalkyl, C₄-C₈ trialkylsilylalkyl, C₃-C₈ cyanoalkyl, C₃-C₈ halocycloalkyl, C₃-C₈ haloalkenyl, C₅-C₈ alkoxyalkenyl, C₅-C₈ haloalkoxyalkenyl, C₅-C₈ alkylthioalkenyl, C₃-C₈ haloalkynyl, C₅-C₈ alkoxyalkynyl, C₅-C₈ haloalkoxyalkynyl, C₅-C₈ alkylthioalkynyl, C₂-C₈ alkyl carbonyl, C₂-C₈ alkoxy carbonyl, phenyl optionally substituted with halogen, CN, C₁-C₂ haloalkyl and C₁-C₂ haloalkoxy or benzyl optionally substituted with halogen, C₁-C₃ alkyl and C₁-C₃ haloalkyl;

each R²³ is H or C₁-C₄ alkyl;

each R²⁴ is C₁-C₄ alkyl or phenyl optionally substituted with one or more R²⁶ groups;

R²³ and R²⁴ may be taken together as -(CH₂)₅-, -(CH₂)₄- or -CH₂CH₂OCH₂CH₂-,

each ring optionally substituted with C₁-C₃ alkyl, phenyl or benzyl;

each R²⁵ is H or C₁-C₄ alkyl;

each R²⁶ is C₁-C₃ alkyl, C₁-C₃ haloalkyl, C₁-C₃ alkoxy, C₁-C₃ haloalkoxy, C₁-C₃ alkylthio, C₂-C₅ alkylcarbonyl, C₂-C₅ alkoxycarbonyl, halogen, amino, cyano or nitro;

R²⁸ is H or C₁-C₄ alkyl;

X³ is O, S or NR²⁸;

m is 0, 1, 2, 3 or 4;

each n is independently 0, 1 or 2;

p is 0 or 1;

t is 0, 1 or 2;

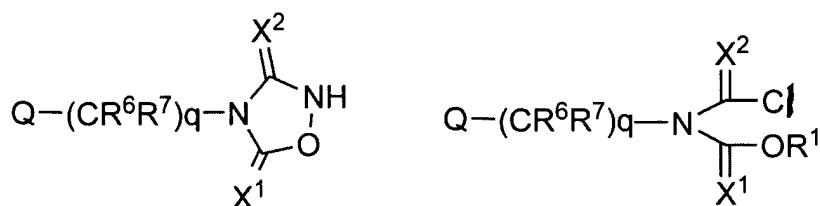
provided that when Q is unsubstituted phenyl, X¹, X² and X³ are O, q is 0 and R² is methyl, then R¹ is other than methyl;

provided that when q is 0, and X¹, X² and X³ are O, and R¹ and R² are CH₃, then

Q is other than ethyl; and,

provided that when X^1 and X^2 are O and q is 0, then Q is other than unsubstituted benzyl.

Claim 18 (currently amended): A compound of Formula 8 or Formula 20



8

20

wherein R^6 , R^7 , q, Q and X^2 are as defined above for Formula 1;

wherein X^2 is independently O or S;

wherein each R^6 and R^7 are independently H or C_1 - C_4 alkyl and

each q is independently 0, 1 or 2; and,

wherein

Q is H; or C_1 - C_{12} alkyl, C_3 - C_{10} cycloalkyl, C_6 - C_{14} bicycloalkyl, C_3 - C_{12} alkenyl,

C_3 - C_{10} cycloalkenyl, C_6 - C_{14} bicycloalkenyl or C_3 - C_{12} alkynyl, each optionally substituted with one or more R^{21} ; or

Q is a 3- to 7-membered fully saturated or 5- to 7-membered partially saturated

heterocyclic ring containing one or two X, provided that (a) when X is other than O or $S(O)_n$, then only one X may be present and (b) when two X are present in the ring, they cannot be bonded directly to each other; or

Q is a 5- or 6-membered aromatic heterocyclic ring system containing 1 to 3

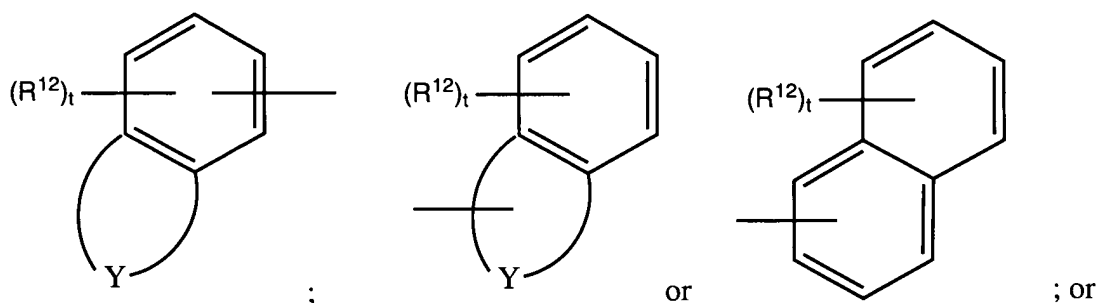
heteroatoms independently selected from the group consisting of nitrogen, oxygen and sulfur, provided that the heterocyclic ring system contains no more than one oxygen and no more than one sulfur, and each heterocyclic ring system is optionally substituted with one or more R^{16} ; and when Q is a 5- or 6-membered aromatic heterocyclic ring system containing a nitrogen, then Q is bonded through any available carbon or nitrogen atom by replacement of a

hydrogen on said carbon or nitrogen atom; or

Q is phenyl optionally substituted with one or more substituents independently

selected from the group consisting of R^{16} , phenoxy and Z; or

Q is



Q is $-C(R^{14})(=NOR^{15})$, $-C(O)R^{19}$, $-C(O)OR^{19}$, $-C(O)SR^{19}$, $-C(S)R^{19}$, $-C(S)OR^{19}$,

$-C(S)SR^{19}$, $-C(O)NR^{23}R^{24}$, $-C(S)NR^{23}R^{24}$, $-OR^{19}$, $-NR^{19}R^{20}$, $-S(O)_nR^{19}$ or $-S(O)_nNR^{19}R^{20}$;

each X is $-O-$, $-S(O)_n-$, $-N=$, $-NR^{10}-$ or $-Si(R^{11})_2-$;

Y is, together with the carbons to which it is attached, a fully or partially saturated 5-, 6- or 7-membered carbocyclic ring optionally substituted with one or more C_1 - C_4 alkyl groups; or

Y is, together with the carbons to which it is attached, a fully or partially saturated 5-, 6- or 7-membered heterocyclic ring which contains one or two X and is optionally substituted with one or more R^{12} , provided that when said heterocyclic ring contains two X, then one X is other than O;

Z is phenyl or a 5- or 6-membered aromatic heterocyclic ring system containing 1 to 3 heteroatoms independently selected from the group consisting of nitrogen, oxygen and sulfur, provided that the heterocyclic ring system contains no more than one oxygen and no more than one sulfur, and each phenyl and heterocyclic ring system is optionally substituted with one or more R^{16} ;

R^1 is C_1 - C_6 alkyl, C_1 - C_6 haloalkyl, C_3 - C_6 alkenyl, C_3 - C_6 haloalkenyl, C_3 - C_6 alkynyl, C_3 - C_6 haloalkynyl, C_1 - C_6 alkoxy, C_2 - C_6 alkoxyalkyl or C_2 - C_6 haloalkoxyalkyl;

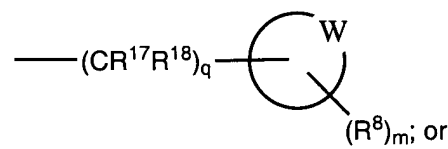
or R¹ is C₃-C₇ cycloalkyl or C₃-C₇ cycloalkenyl, each optionally substituted with one or more R⁵; or

R¹ is phenyl optionally substituted with one or more R¹³; or

R¹ is a 5- or 6-membered aromatic heterocyclic ring system containing 1 to 3 heteroatoms independently selected from the group consisting of nitrogen, oxygen and sulfur, provided that the heterocyclic ring system contains no more than one oxygen and no more than one sulfur, and each heterocyclic ring system is optionally substituted with one or more R¹⁶;

R² is C₁-C₆ alkyl, C₁-C₆ haloalkyl, C₃-C₇ cycloalkyl, C₃-C₆ alkenyl, C₃-C₆ haloalkenyl, C₃-C₆ alkynyl, C₃-C₆ haloalkynyl, C₁-C₆ alkoxy, C₂-C₆ alkoxyalkyl, C₂-C₆ haloalkoxyalkyl or NR³R⁴; or

R² is



R¹ and R² are taken together as -CH₂CH₂-, -CH₂CH₂CH₂-, -CH₂CH₂CH₂CH₂-, -CH₂CH₂CH₂CH₂CH₂- or -CH₂CH₂OCH₂CH₂-;

R³ is C₁-C₆ alkyl, C₁-C₆ haloalkyl, C₃-C₆ alkenyl, C₃-C₆ haloalkenyl, C₃-C₆ alkynyl, C₃-C₆ haloalkynyl; or

R³ is C₃-C₇ cycloalkyl or C₃-C₇ cycloalkenyl, each optionally substituted with one or more R⁵; or

R³ is a saturated or partially saturated 5-, 6- or 7-membered heterocyclic ring containing 1 to 2 heteroatoms independently selected from the group consisting of nitrogen, oxygen and sulfur, and each heterocyclic ring is optionally substituted with one or more R⁵; or

R³ is phenyl optionally substituted with one or more R²⁶ groups; or

R¹ and R³ are taken together with the two nitrogen atoms to which they are attached to form a saturated or partially saturated 5-, 6- or 7-membered heterocyclic ring containing an optional third heteroatom selected from the group consisting of

oxygen, sulfur and nitrogen, and said heterocyclic ring is optionally substituted with one or more R⁹; or

R² and R¹³, together with the two atoms to which they are attached and the atom between them, form a fully saturated 5-, 6- or 7-membered carbocyclic or heterocyclic ring containing one oxygen, one sulfur or one or two nitrogen atoms, said heterocyclic ring is optionally substituted with one or more R¹², provided that when said heterocyclic ring contains two nitrogen atoms, they are other than bonded directly to each other;

R⁴ is H or C₁-C₄ alkyl; or

R³ and R⁴ are taken together with the nitrogen atom to which they are attached to form a saturated or partially saturated 5-, 6- or 7-membered heterocyclic ring containing an optional second heteroatom selected from the group consisting of oxygen, sulfur and nitrogen, and said heterocyclic ring is optionally substituted with 1-4 R⁹;

each R⁵ is independently halogen, C₁-C₄ alkyl or C₁-C₄ alkoxy; or when two R⁵ are attached to the same carbon, then said two R⁵ groups are taken together as (=O);

R⁸ is independently C₁-C₄ alkyl, C₁-C₄ haloalkyl or C₁-C₄ alkoxy;

each R⁹ is independently C₁-C₄ alkyl or C₁-C₄ alkoxy; or when two R⁹ are attached to the same carbon, then said two R⁹ groups are taken together as (=O);

W is, together with the carbons to which it is attached, a fully or partially saturated 5-, 6- or 7-membered heterocyclic ring containing one or two X, provided that (a) when X is other than O or S(O)_n, then only one X may be present; (b) when two X are present in the ring, they cannot be bonded directly to each other; and (c) said heterocyclic ring is bonded to the group (CR¹⁷R¹⁸)_q through other than X;

R¹⁰ is H, C₁-C₄ alkyl, C₁-C₄ haloalkyl, C₃-C₄ alkenyl, C₃-C₄ alkynyl, C₂-C₄ alkoxy carbonyl or C₂-C₄ alkyl carbonyl; or R¹⁰ is phenyl optionally substituted with C₁-C₃ alkyl, halogen, cyano, nitro or C₂-C₄ alkoxy carbonyl;

each R¹¹ is C₁-C₄ alkyl;

each R¹² is independently halogen, C₁-C₄ alkyl, C₁-C₄ haloalkyl, C₁-C₄ alkoxy, C₁-C₄ haloalkoxy, C₁-C₄ alkylthio, C₁-C₄ haloalkylthio, C₁-C₄ alkylsulfinyl,

C₁-C₄ alkylsulfonyl or C₂-C₄ alkoxy carbonyl;

each R¹³ is independently halogen, C₁-C₃ alkyl, C₁-C₃ haloalkyl, C₁-C₃ alkoxy,

C₁-C₃ haloalkoxy, C₃-C₆ alkenyloxy, C₃-C₆ alkynyloxy, C₁-C₄ alkylthio, C₁-C₄ haloalkylthio, C₁-C₄ alkylsulfinyl, C₁-C₄ alkylsulfonyl, cyano, amino, nitro or C₂-C₄ alkoxy carbonyl;

R¹⁴ is H, C₁-C₆ alkyl, C₁-C₆ haloalkyl or C₂-C₆ alkoxyalkyl; or

R¹⁴ and R⁶, together with the carbon atoms to which they are bonded, form a 5- or 6-membered saturated carbocyclic ring optionally substituted with one or more C₁-C₄ alkyl groups;

R¹⁵ is H, C₁-C₆ alkyl, C₁-C₆ haloalkyl, C₃-C₄ alkenyl or C₃-C₄ alkynyl;

each R¹⁶ is independently halogen, nitro, cyano, C₁-C₄ alkyl, C₁-C₄ haloalkyl, C₃-C₄ alkenyl, C₃-C₄ alkynyl, OR²², NR²³R²⁴ or S(O)_nR¹⁹;

each R¹⁷ and R¹⁸ are independently H or C₁-C₄ alkyl;

each R¹⁹ and R²⁰ are independently C₁-C₁₂ alkyl, C₃-C₈ cycloalkyl, C₃-C₁₂ alkenyl, C₃-C₈ cycloalkenyl or C₃-C₁₂ alkynyl, each optionally substituted with one or more R²¹;

each R²¹ is halogen, C₄-C₈ trialkylsilylalkyl, CN, NO₂, -OR²², -NR²³R²⁴, -S(O)_nR²², -S(O)_nNR²³R²⁴, -C(O)R²², -C(S)R²², -C(O)OR²², -C(S)OR²², -C(S)SR²², -C(O)NR²³R²⁴, -C(S)NR²³R²⁴, -CHR²⁵COR²², -CHR²⁵P(O)(OR²²)₂, -CHR²⁵P(S)(OR²²)₂, -CHR²⁵C(O)NR²³R²⁴, -CHR²⁵C(O)NH₂, -CHR²⁵CO₂R²², phenyl optionally substituted with one or more R²⁶ groups or benzyl optionally substituted with one or more R²⁶ groups;

each R²² is C₁-C₈ alkyl, C₃-C₈ cycloalkyl, C₃-C₈ alkenyl, C₃-C₈ alkynyl, C₁-C₈ haloalkyl, C₂-C₈ alkoxyalkyl, C₂-C₈ alkylthioalkyl, C₂-C₈ alkylsulfinylalkyl, C₂-C₈ alkylsulfonylalkyl, C₄-C₈ alkoxyalkoxyalkyl, C₄-C₈ cycloalkylalkyl, C₄-C₈ alkenoxyalkyl, C₄-C₈ alkynyloxyalkyl, C₆-C₈ cycloalkoxyalkyl, C₄-C₈ alkenyloxyalkyl, C₄-C₈ alkynyloxyalkyl, C₃-C₈ haloalkoxyalkyl, C₄-C₈ haloalkenoxoalkyl, C₄-C₈ haloalkynyloxyalkyl, C₆-C₈ cycloalkylthioalkyl, C₄-C₈ alkenylthioalkyl, C₄-C₈ alkynylthioalkyl, C₁-C₄ alkyl substituted with phenoxy or benzyloxy, each ring optionally substituted with halogen, C₁-C₃

alkyl or C₁-C₃ haloalkyl, C₄-C₈ trialkylsilylalkyl, C₃-C₈ cyanoalkyl, C₃-C₈ halocycloalkyl, C₃-C₈ haloalkenyl, C₅-C₈ alkoxyalkenyl, C₅-C₈ haloalkoxyalkenyl, C₅-C₈ alkylthioalkenyl, C₃-C₈ haloalkynyl, C₅-C₈ alkoxyalkynyl, C₅-C₈ haloalkoxyalkynyl, C₅-C₈ alkylthioalkynyl, C₂-C₈ alkyl carbonyl, C₂-C₈ alkoxy carbonyl, phenyl optionally substituted with halogen, CN, C₁-C₂ haloalkyl and C₁-C₂ haloalkoxy or benzyl optionally substituted with halogen, C₁-C₃ alkyl and C₁-C₃ haloalkyl;

each R²³ is H or C₁-C₄ alkyl;

each R²⁴ is C₁-C₄ alkyl or phenyl optionally substituted with one or more R²⁶ groups;

R²³ and R²⁴ may be taken together as -(CH₂)₅-, -(CH₂)₄- or -CH₂CH₂OCH₂CH₂-,

each ring optionally substituted with C₁-C₃ alkyl, phenyl or benzyl;

each R²⁵ is H or C₁-C₄ alkyl;

each R²⁶ is C₁-C₃ alkyl, C₁-C₃ haloalkyl, C₁-C₃ alkoxy, C₁-C₃ haloalkoxy, C₁-C₃ alkylthio, C₂-C₅ alkylcarbonyl, C₂-C₅ alkoxy carbonyl, halogen, amino, cyano or nitro;

R²⁸ is H or C₁-C₄ alkyl;

X³ is O, S or NR²⁸;

m is 0, 1, 2, 3 or 4;

each n is independently 0, 1 or 2;

p is 0 or 1;

t is 0, 1 or 2;

provided that when Q is unsubstituted phenyl, X¹, X² and X³ are O, q is 0 and R² is methyl, then R¹ is other than methyl;

provided that when q is 0, and X¹, X² and X³ are O, and R¹ and R² are CH₃, then Q is other than ethyl; and,

X¹ is O; provided that when X¹ and X² are O and q is 0, then Q is other than unsubstituted benzyl.

Claims 19-27 (canceled).